

To: Dave Kinroth (davekinroth@charter.net) (davekinroth@charter.net)[davekinroth@charter.net]; Johnson, James[Johnson.James@epa.gov]
From: Monnig, Rob
Sent: Tue 11/25/2014 5:39:05 PM
Subject: FW: Radiello options and detection limits for 7 and 14 day exposure
[Radiello DLs.xlsx](#)

Here's the radiello bid information. We just need to decide if we want thermally desorbed or chemically desorbed. See below for explanation trade-offs. Also do we want radiellos for h2s and/or so2?

From: Monnig, Rob
Sent: Thursday, October 30, 2014 4:32 PM
To: Beringer.michael@Epa.gov
Cc: Johnson, James (Johnson.James@epa.gov); Davis, Michael (Davis.Michael@epa.gov)
Subject: Radiello options and detection limits for 7 and 14 day exposure

Hi Mike,

James asked me to pass this along. I threw together the attached spreadsheet comparing some Radiello options to possibly replace Summa canister sampling during the baseline monitoring. I compared the detection limits for these options from two labs:

-7 vs 14-day exposure

-thermal vs chemical desorption of tube (thermal gives lower DLs, but chemical gives more reported VOCs)

I also included residential RSLs on the spreadsheet for comparison.

The questions James and I had are:

--Are there any specific VOCs that should be targeted during this baseline period (and at what

detection levels)?

--Besides difference in detection limits, are there any other considerations for selecting a 7 vs 14-day exposure period?

Also I found a lab that can do H₂S and SO₂ with the Radiellos. I asked for these DLs and the lab said they should be able to meet them:

H₂S: 1 ug/m³ (half of the residential RSL of 2.1 ug/m³)

SO₂: 100 ug/m³ (roughly half of MDNRs 0.1 ppm [=282 ug/m³] “orange” level).

Thanks!

Rob

Rob Monnig, PE | Chemical Engineer

415 Oak Street | Kansas City, Missouri 64106 | www.tetratech.com
Direct: 816.412.1775 | Main: 816.412.1741 | Mobile: 816.729.5621 | Fax: 816.410.1748

Tetra Tech | Complex World, Clear Solutions™

PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.